

**SECRET**

15 July 1957

MEMORANDUM FOR: [ ] Ch/PP/AMD 25X1

SUBJECT : Calibration of [ ] Camera System 25X1

1. During the course of development and testing of the camera system for use in project [ ] many novel attempts have been made by D/GP personnel, in conjunction with AMD personnel, to raise the metrical capability of the night photographic system to the highest possible technical intelligence level. 25X1

Much has actually been accomplished with the prototype system now at Eglin AFB, and even greater photographic quality and metrical capability is expected from the modified systems presently under procurement.

2. In direct application to these attempts to raise photographic quality to a maximum level is another means, which has been attempted once during the operational and suitability testing of the prototype cameras. This is the photogrammetric calibration of the complete camera system by means of a field control range, to determine camera and mount constants for a particular mission. The attempt which was made proved the suitability of such a procedure, though the results are incomplete because of the lack of fiducial markers in the prototype cameras. The new series of cameras will have fiducial markers as an integral part of each camera.

3. The feasibility of accomplishing such calibration photography at the beginning or end of each operational mission has been discussed with [ ] of the AMD staff. 25X1

He is of the opinion that such a procedure is quite possible from an operational standpoint. 25X1

4. In view of the facts outlined, it is recommended that [ ] D/GP [ ] project officer, and [ ] 25X1

[ ] of his staff, confer with the proper personnel of PP/AMD to work out such operational details as necessary in order to lay the foundation for the implementation of establishing photogrammetric control ranges at each of the P2V operating bases. 25X1

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